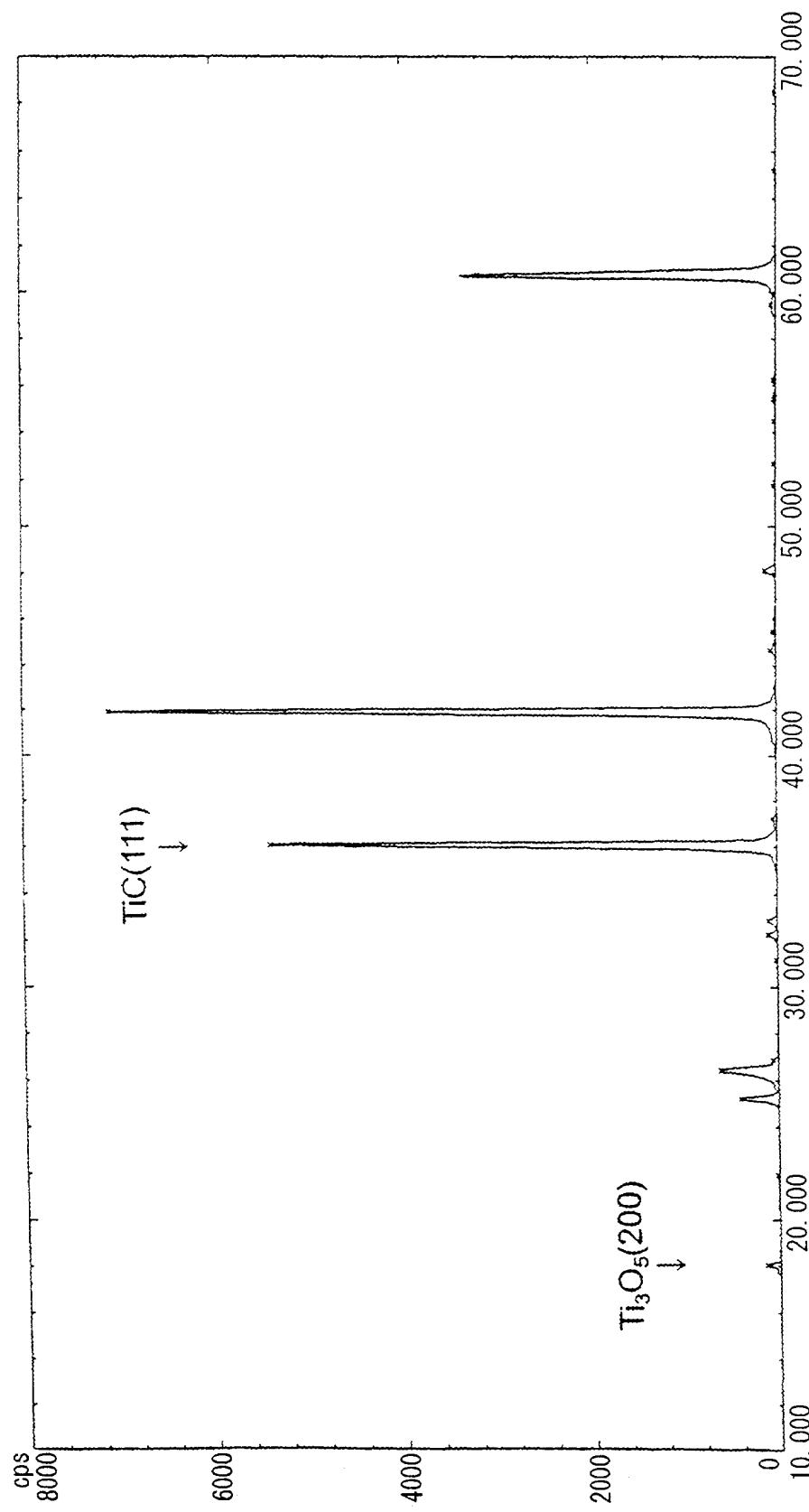


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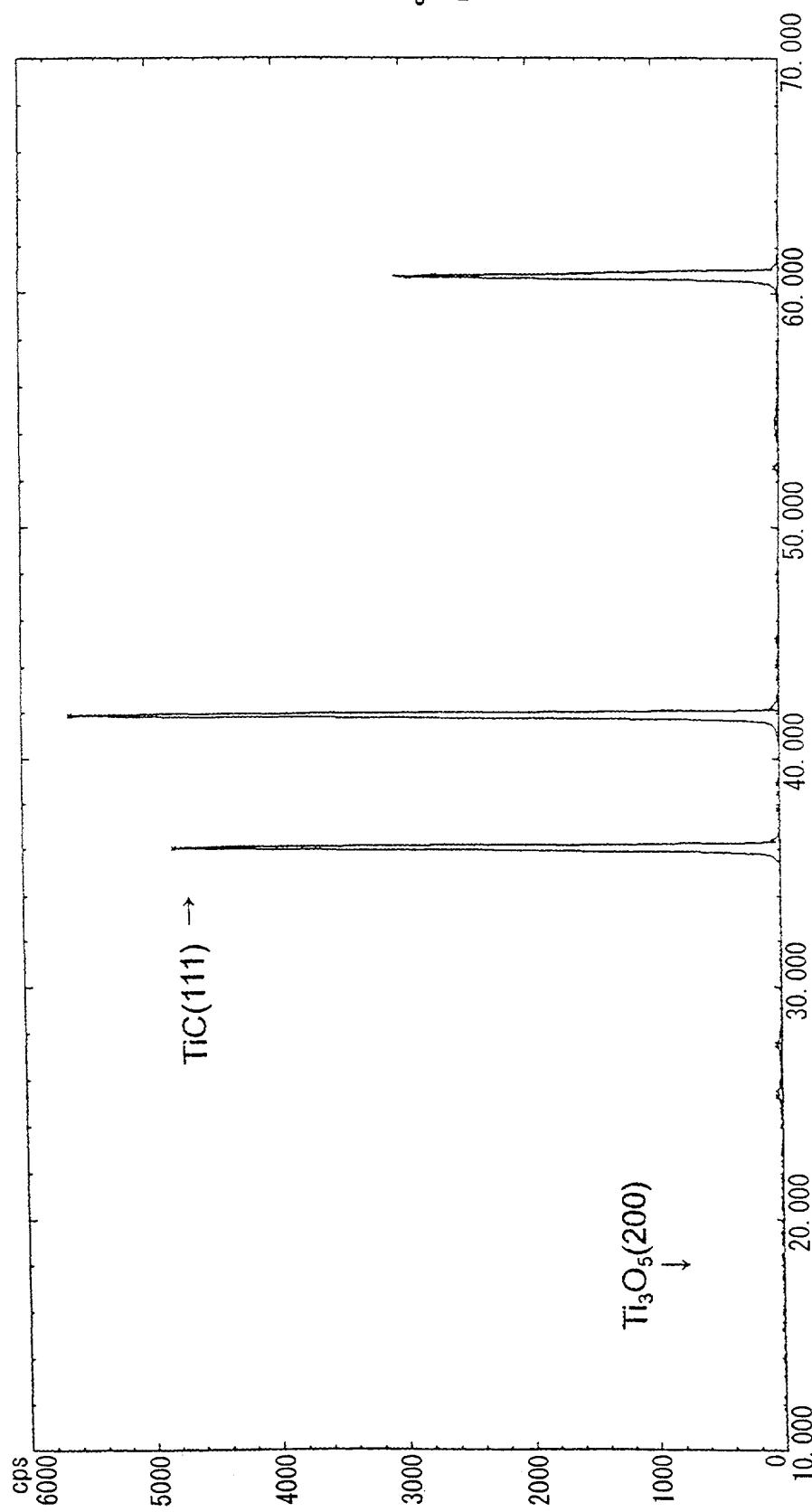
Fig. 1



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Fig. 2

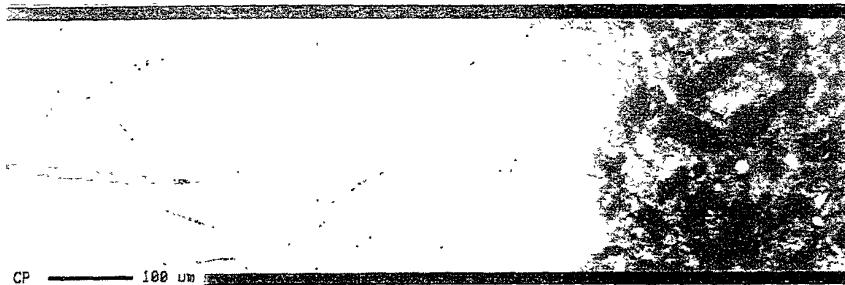


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Fig. 3

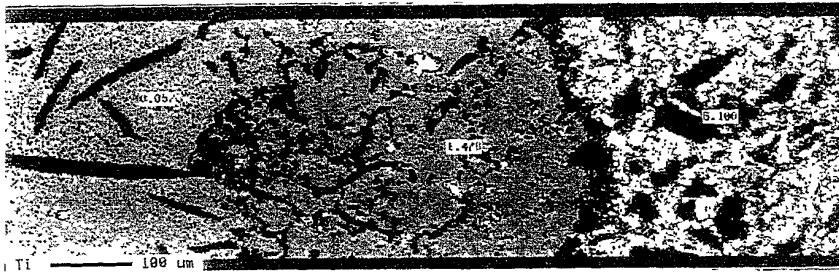
SEM



CP	Level	Breadth
1/50	0.0	
1081	10.4	
1612	2.9	
1543	7.7	
1475	3.8	
1406	0.2	
1337	21.8	
1260	0.2	
1200	0.0	
live	1597	

(Melted pig iron) ←→ (Interface protective layer) ←→ (Carbonaceous Refractory material)

Ti



Ti	Count	Breadth
10,000	7.5	
8,750	0.9	
7,500	1.1	
6,250	1.5	
5,000	1.6	
3,750	2.2	
2,500	2.0	
1,250	1.0	
0,000	50.1	
live	21.4	

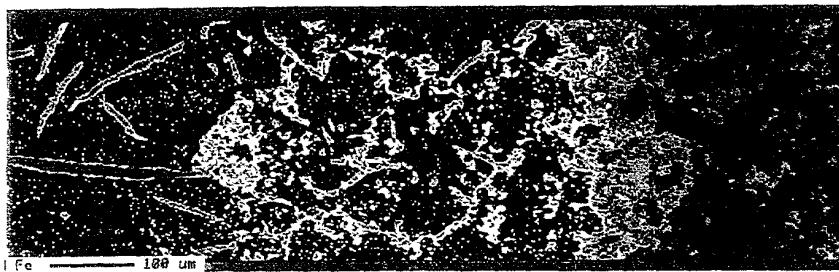
Protective layer : Ti 1.478 %

C



C	Count	Breadth
5,000	13.9	
4,437	1.0	
3,875	1.0	
3,312	1.2	
2,750	1.1	
2,187	1.6	
1,625	2.0	
0,625	4.5	
500	52.3	
live	6245	

Fe



Fe	Count	Breadth
100.00	1.7	
87.50	49.3	
75.00	4.9	
62.50	1.2	
50.00	2.6	
47.50	2.0	
45.00	7.9	
12.50	9.1	
0.00	22.1	
live	50.46	